

By Express

67606234US · March 29, 2005

In the Specification:

Amended page 1, delete the title "New Description"

Amended page 1, before line 5, the paragraph beginning with "The invention" insert
the following titles and paragraph:

-- CROSS-REFERENCE TO RELATED APPLICATIONS

This is a U.S. national stage of application No. PCT/DE03/02891, filed on 1 September 2003. Priority is claimed on the following application(s): Country: Germany, Application No.: 102 45 933.9, Filed: 30 September 2002 the content of which is/are incorporated herein by reference.

BACKGROUND OF THE INVENTION

1. Field of the Invention --

Amended page 1, before line 10, the paragraph beginning with "In order to convey", insert
the following title:

-- 2. Description of the Prior Art --

Please replace the paragraph beginning on amended page 1, line 22, with the following
rewritten paragraph:

-- Devices for producing a focused light flux have already been disclosed in US patent
nos. specification 5,836,676, and 5,043,716 and 5,617,131 ~~the Japanese laid open specification~~
~~7-130256~~, in an application for a display, in each case. A luminaire with focusing of the light

beam is known from US patent specification 4,935,665. However, the arrangements shown exhibit scarcely any suitability for use in a head-up display, because of their respective focusing and scattering characteristics. --

Amended page 1, before line 32, the paragraph beginning with "It is therefore", insert the following title:

-- SUMMARY OF THE INVENTION --

Please replace the paragraph beginning on amended page 2, line 1, with the following rewritten paragraph:

-- This object is achieved according to the invention by a head up display including a device for producing a focused light flux, the display comprising a light source having a plurality of light emitting diodes arranged in points of a light emitting diode matrix, an optical device arranged and dimensioned for focusing and scattering light produced by the light source, the optical device including a grid reflector comprising walls reflecting the light produced by the light source and forming light channels for each point of the light emitting diode matrix, the light channels each having a first end facing the light source and a second end at a light exit opening of the optical device, and a positive lens arranged at the first end of each of the light channels, an image reproduction apparatus including light valves arranged proximate the light exit opening of the optical device, and a diffusing screen arranged between the image reproduction apparatus and the light exit opening ~~the features cited in claim 1. The subclaims include expedient developments.~~ --

Please replace the paragraph beginning on amended page 2, line 5, with the following rewritten paragraph:

-- ~~In the case of the device according~~ According to the invention, ~~it has proved to be advantageous when~~ a matrix point is formed in each case from a number of light-emitting diodes, which can also be of different color. Furthermore, the invention is not restricted to the application of in each case a single lens per light channel. --

Amended page 3, before line 28, the paragraph beginning with "The invention permits", insert the following title:

-- **BRIEF DESCRIPTION OF THE DRAWINGS** --

Please replace the paragraph beginning on amended page 3, line 28, with the following rewritten paragraph:

-- The invention permits numerous embodiments. A number of them are illustrated schematically in the drawing with the aid of a number of figures, and described below. In the ~~drawing~~ drawings:

figure 1 ~~shows is~~ is a cross-sectional view section through a device comprising an exemplary embodiment of the present invention,

figure 2 ~~shows is~~ is a plan view of the grid reflector for the exemplary embodiment according to figure 1,

figure 3 ~~shows is~~ is a cross-sectional view a section through a further exemplary embodiment according to the invention,

figure 4 ~~shows is~~ is an enlarged illustration showing details of the device of a detail from figure 1, for the purpose of explaining various details,

figure 5 ~~shows~~ is an enlarged cross-sectional illustration showing a device according to ~~of~~
~~a detail of another exemplary embodiment~~ of the present invention, and

figure 6 ~~shows~~ is a perspective view showing a part of the lens matrix according to the
invention. --

Amended page 4, before line 10, the paragraph beginning with "Provided as light", insert the
following title:

-- **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS** --

Amended page 7, amended the title as follows:

-- ~~New Patent Claims~~ What is claimed is: --